	1	/ Rece	iving Rep	ort	12613	33
	Date: 13/6	26	Bato	h No: M	26/3	?
	Supplier: TH	South		P/O:	2004)	
Packing Slip Invoice: Receipt: Discrepanci	Yes N	io V Sr S	Release Note / Vaybill Attache Shipment Com IC6 Inspection Vork Order	ed: Y plete: Y	es N es N	$\circ \overline{Z}$ —
Part Number	Description	antity dered	Quantity Received	Quantity Returned	Quantity Short	Comments
, e			£. /.			
Production/A Date Received/Co Initial	13/4/26	Initials	of receiver (if shipment	OK) Level	

Purchase Order Receipt Listing

Wednesday, June 26, 2013 7:49:24 AM

All amounts are calculated in domestic currency.

All Line Item Types All Vendors PO ID PO20247 Receipt Dates from 6/26/2013 to 6/26/2013
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

	Book Amt	\$1,345.47	***	\$3,496.31		\$7,799,68		\$1,977.22		272.1696	0.0000	\$14,618.68
***	MRB Qty/	0	0	0	0 y	•	0	0	0	uantity:	O U/M): huantity:	ıt Value: uantiity:
	Inspected Qty/ Rejected Qty (PO U/M)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Total Received Quantity:	Total Qty to Inspect (PO U/M): Total Reject Quantity	Total Receipt Value
	Cost Per Unit/ Recv Value	\$87.26	\$1,345.47	\$29.14	\$3,496.31	\$62.56	\$7,799.68	\$163.64	\$1,977.22	, ·	Total	Tot
	Recv Qty (PO U/M)	15.4200		120.0000		124.6666		12.0830				
,	Recv Date/ Recv Emp	6/26/2013	DESJ02	6/26/2013	DES102	6/26/2013	DESJ02	6/26/2013	DESJ02			
	Required Date Required Qty	6/28/2013 ~6/26/2013	15.4200	6/28/2013, 6/26/2013	120.0000	6/28/2013	124.6666	6/28/2013 6/26/2013	12.0830			
N Air	W.	aterials CA Ltd	*	•								
	y PO U/M / Stock U/M	OP001 Thyssenkrupp Materials CA	00 / 7075-T6 BAR 4.000' f × 4 500"	m126133 M7075T6B2.250X02. f	7075-T6 BAR 2.250' f X 2.750" 	M7075T6B3.000X04. f	7075-T6 BAR 3.000' f X 4.500"	M7075T6B6.000X6.0 f	7075-T6 BAR 6.000' f X 6.000'' (order in billets)			
	Project ID Reference/ Description/ Cert Std	VC-COP001	00 7075-T6 I X 4 500"	m126133 M7075T6	7075-T61 7075-T61 72.750"	M7075T6l	7075-T61 X4.500"	m126133 M7075T6	7075-T6 BAR 6.00 X 6.000" (order in hillers)	m126133		
	Line Nbr/ Insp Req	ndorID/Vendor Name PO20247	No V	2	No	12.5	No CoN	4	No V			
	Purchase Order ID/ Curr Type	endorID\V PO20247	CAD									

Ship From: BILL OF LADING No: PEC 828926 Ship Date 25Jun13 at 8:00 From PFW Probill THYSSENKRUPP MATERIALS NA VIM TRANSFER Via 2821 LANGSTAFF ROAD CONCORD FOB CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 PREPAID Frt Route 0- 0 Manifest Trailer Vhcle Slp STAN IVERS (905-532-1350) Ship To: (1) Sold To: (20115) DART AEROSPACE DART AEROSPACE 1270 ABERDEEN ST 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7 Tel: 613-632-9577 Fax: 613-632-1053 HAWKESBURY, ON K6A 1K7 BILL OF LADING 1) Our Order PEC-579331- 1 Your PO # 20247 ALUMINUM PLATE 7075-T651 4.00" THICK X 4.5000" X 9.2500" Heat Number Tag No Quantity 717489 192418 5.78 SFT PCS 20 2) Our Order PEC-579331- 2 Your PO # 20247 ALUMINUM PLATE 7075-T651 2.250" THICK X 2.7500" X 144.0000"

Heat Number Tag No Quantity
383331 192419 27.50 SFT PCS 10 963 3) Our Order PEC-579331- 3 Your PO # 20247 ALUMINUM PLATE 7075-T651 3.00" THICK X 4.5000" X 34.0000" PCS WIH Wt LBS Heat Number Tag No 401841 192421 (717246) 192422 Quantity 31.88 SFT 1470 3.0 14.88 SFT 686 (717246)14 44 2156 46.75 SFT Total: 4) Our Order PEC-579331- 4 Your PO # 20247 ALUMINUM PLATE 7075-T651 6.00" THICK X 6.0000" X 7.2500" Heat Number Quantity PCS Wt LBS Tag No 1.51 SFT 132 192424 192425 1.21 SFT 105 79 192426 0.91 SFT 0.91 SFT 7.9 192428 132 192429 1.51 SFT 1Continued

RAPPORTIEES IMMEDIATEMENT.

ERRORS OR SHOPTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

1-13-

* OF LADING No: BILL Ship Date 25Jun13 at 8:00 From PFW Ship From: THYSSENKRUPP MATERIALS NA Probill VIM TRANSFER 2821 LANGSTAFF ROAD Via CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 CONCORD FOB PREPAID Frt 0- 0 Manifest Route Vhcle Slp STAN IVERS (905-532-1350) (20115)Sold To: Ship To: DART AEROSPACE DART AEROSPACE ________ LADING BILL O F Total: 6.04 SFT PCS Tags TOTAL: 9 MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING. ATTN: CHANTAL/LINDA ** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER ** REFERENCED ON IT ** TOTAL 3 SKIDS, 1 BDL G.W. 4129 LS ITEM (1) SKID ITEM (2) BDL ITEM (3) SKID ITEM (4) SKID *CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT.* *** 9:00 AM TO 4:00 PM **** TEL. 800-926-2600 **** **************** WE STOCK STAINLESS STEEL PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *****************

PEC 828926

527

LBS

4004

Trailer

94

Page: 2 Last

ADDED TO EVERY ORDER. ***

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

DATE





INSPECTION CERTIFICATE № 13,5841



EN 10204 - 3.1

Certified by Russian Registe

nsignee:				•		Quantity:		2		
	en Krupp M	aterials NA				Canadiana y				
						Net Weight, kg::		3450		
ntraci num	ber:	N14184-S				Specification No		V14184		
		540017046	William Market and Control			Lof Nix	1 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1.		
icie numbe	r:	ALFLR0036	39			Package Nr. (317365, 61	7366		
scription of	Goods:	Plates					Requirem	ents on the P	foducis:	Ž\
	Grade of Produ		Dim	ensions, inch	mm	Material conform			7075 T651	7
	·*************************************	***************************************	4.03"X60.£	MV478EN		Product conform	e to sili romiliro	mante of		/
			102.360X1		0.3	ASTM-B209			AMS4045F	(, This
						product conf				
						2002/95/EC				
***************************************		***************************************	<u> </u>	Mac	anical Proper	íles				
The	Lat Number	Cast Number	Number of	Ter	and the second second	Yield Sin		Elongal	ion,%	Hardness,
ondition f Tested			Tests	Stre	ngth	(0,2% o	fiset)			
tendards				ki min	si	ksi min				is the language of the languag
quired /				8101.1	max -	-	17%EX	nin	max •	
1	717489	20-5739	2	78.9	80.3	69.4	71.0	9.5	9.5	
		,								
***************************************				Chem	ical Composit	on, %			1	
ment	Silicon	lron	Copper	Manganese	Magnesium	Chromium	Nickei	Zinc	Titanium	Zirconlur
poired	SI 0.4	Fe 0.5	Cu 1,2-2.0	Mn 0.3	Mg 2.1-2.9	Cr 0.18-0.28	N .	2n 5.1-6.1	TI 0:21	Zr
dents	0.08	0,19	1.5	0.09	2.5	0.18		5.9	0.08	
ment										
11353381	Ti+2 <i>r</i>	Na	Tin Sa	Bismuth Bi	Plumbum Pb	Mn*Cr	ca -	Other Eli Each	ements Total	Al
uired		YMMAN CONTENT	***	**	*	*	- 11 11 11 1 1	0,05	0.15	remeind
ntents	*	***	•	*				0.05	0,15	remaind
					Other Tesis					
Melhod	Macro-	Micro-	វ ហ រ	Electro-	SCF I	Contents H2				
	structure	structure		conductivity		of metals		Mercury		
Result	*		v	4		0.22	1 "Russia i	is country of m	nelt and menul	acture*
	***************************************							ara Ai		
	On beha	ılf:		1810		OAO K	UMZ			
		······································		- ~	Tetra a	mak rate, 63	3.7.(400)			





Constellium Rolled Products Ravenswood, LLC

MI



COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA

COPPER & BRASS SALES P.O. BOX 5116

SOUTHFIELD 48086

COPPER&BR

WEIGHT SHIPPED

8,420

46544

N68205 4075

NO. OF PIECES

INCLUSION

SERIAL#: 20130422N68205

PAGE

1 OF

CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 5400175333 110-512983 GAUGE LENGTH ALLOY 144.500 00 T651 2.28000 60.50d 7075 TEM ORDERED MOLD PLATE-DIST. GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12 DATE SHIPPED B/L NUMBER PART NUMBER 04/22/13 ALFLR01001 N68200

GOVT. CONTRACT NO.

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

LOT. NUMBER	TEST	NO. OF TESTS	ULTIMATI	E STRE	NGTH K.S.I.		YIELD	STREN	GTH K.S.I.		ELONGA	TION %			₹ LA	
NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.	_	MIN.	MAX	ζ.	MIN	MAX	-
83331	LIT	2	**** 1 79.3		1 79 . 8		69.4		69.5	***	** 12.5	13	.0			
All m	ateria	ıl co	ntaine	ed	in lot	383	3331	was	cast	and	l manuf	actu	red i	n the	USA	٠.
ALL I	OTS ON	THI	S CERI	·IF	ICATION	I A	LSO C	ONE	FORM T	э тн	E FOLI	-owing	G REQ	UIREM	ENTS	3 -
		ASI	M B209)-1	O AND A	MS	4045	K								
				-												
													-			
ALLOY	SILICON		IRON	 	OPPER		GANESE		GNESIUM	CHRO		ZINC		FANIUM	OTHE EACH	
			IIN. MAX.	MP	OSITICI	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN. MA	X. MIN.	MAX.	EACH MAX.	TO M

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545983

CstAr

CstOr 249568

Wqt.: 963.000 LB

Date 06/20/2013

John Bento





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

TEMPER

T651

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

SERIAL#: 20130422N68205

48086

46544

CUSTOMER PURCHASE ORDER NO. & ITEM

N68205 4075 COPPER&BR

00

INCLUSION

Constellium ORDER NO. 110-512983 WIDTH LENGTH 60.500 144.500

DATE SHIPPED

04/22/13

7075 TEM ORDERED

ALLOY

5400175333

MOLD PLATE-DIST GE

SPEC PLATE, SAWED

MILL

B/L NUMBER

GAUGE

2.28000

N68200

GOVT, CONTRACT NO.

WETOMER SPECIFICATION [AMS-QQ-A-250/12]

PART NUMBER

ALFLR01001 WEIGHT SHIPPED

NO. OF PIECES 8,420

CERTIFICATION

PAGE

2 OF

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

LOT	TEST	NO. OF	ULTIMATE	STRENG	TH K.S.I.		YIELD ST	RENGTH	I K.S.I.		ELONG	ATION %	,		ND 8		
LOT NUMBER	TEST DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.	MI	.N	MAX	
383331	CR=	0.06 0.19 RS-E	FE.	= 0. = 5.	15 61	CU:	= 1.5 = 0.0	1 2	MN= ZR= : .15	0.0	1	1	= 2.54 MAINDE				
		-	-														
C ALLOY	SILICON		IRON MAX.	COP MIN.	PER MAX.	MANGA MIN.		MAGN MIN.		CHROMI MIN:		ZIN MIN.		TITAN	IUM MAX.	OTHI EACH MAX.	
	TUAL	СНЕМ:	CAL CC	MPOS	ITIC	1											

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545983

CstAr

CstOr 249568

Wgt.: 963.000 LB

Date 06/20/2013

John Jambs





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MΙ

48086

46544

N68205 4075

INCLUSION

SERIAL#: 20130422N68205

PAGE

COPPER&BR CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512983 5400175333 GAUGE WIDTH ALLOY TEMPER 2.28000 60.500 144.500 00 T651 7075 TEM ORDERED MOLD PLATE-DIST GE MILL SPEC PLATE, SAWED CUSTOMER SPECIFICATION AMS - QQ - A - 250/12B/L NUMBER DATE SHIPPED PART NUMBER 04/22/13 N68200 ALFLR01001 NO. OF PIECES GOVT, CONTRACT NO. WEIGHT SHIPPED 4 8,420

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

LOT	TEST	NO. OF	ULTIMATE S	TRENGTH K.S.I.		YIELD ST	RENGTH	K.S.I.		ELONGA	TION %			ຣ ⊥ <i>P</i>	
NUMBER	DIRECTION	TESTS	MIN.	MAX.		MIN.		MAX.		MIN.	MAX.	I.	11N	MAX	
APPROV	AL OF	THE IG OH	LABORAT	NOT BE I	UTH COUS	ORIZE , OR	D QU FRAU	JALIT JDULE	Y Di NT :	ELEGAT STATEM	E. Ents c	R EI			
THE CE	RTIFIC	ATE	MAY BE	PUNISHE) AS	A FE	ПОИ	Y UND	ER	FEDERA	L LAW.				
			CHEM	ISTRY BY	Z OE	S: AR	KSP7	ARK							
CHEMIS	TRIES	REPO	RTED IN	PERCEN'	'AGE	BY W	EIGI	HT.							
WHEN E	RACTUI	RE TO	UGHNESS	TEST R	EQUI	RED,	TEST	red P	ER.	ASTM E	399.				
WHEN I	ENSILI	TES	T REQUI	RED, TE	STED	PER	ASTI	4 E8;	B 5	57.					
Mark H	aperwo	rk:	ALFLR01	.001	·										
DUNS N	umber	0.9	0570149	CAGE	Code	: 1Y	WL9							İ	
Mercur nor ar	y is a	ot a	normal ompound	contam	inar util	nt in ized	alur in	minum the m	al nanu	loys a factur	nd nei	the our p	r mer produ	cury ct.	Į
			"END	de cert	IEIC	CATION	T **								
											į				
															
ALLOY	SILICON		IRON MAX.	COPPER MAX.	MANG MIN.	MAX.	MAGNE	MAX.	CHRON MIN.		ZINC IIN. MAX.	MIN.	MAX.	EACH MAX.	
<u> </u>										"			1	IVIOA	1917
SEE AC	TUAL	CHEM:	ical cdi	1PO\$ITIQ	N .										
ă							.	.			1				
5			L	i		Al LIMI	NUM REM	IAINDER							

P-860-155D (06/11)

Wgt.: 963.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545983

CstAr

CstOr 249568

Date 06/20/2013

John Bunberr

Cust. THYSSENKRUPP MATERIALS NA - ECAD

From: Thyssenkrupp



Constellium

COPPER & BRASS SALES 1015 SAINT JEROME STREET

IN



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD

ΜI

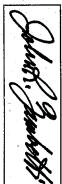
46544

MISHAWAKA

48086

.<															
PC (O F	PER	&BR		12605	4075	IN	CLUSION		AL#	: 20130522P12605	PAGE	1	OF	3
cus	rDI	MER PUR	ICHASE	ORDER	NO. & ITEM	.,		Constellium ORI	DER NO.		CERTI	TICATION			
5.	4(0017	909	7				110-51	3101		"Constellium Rolled Products	hereby cert	ifies t	hat me	tal
ADLC	Y			ÇLAD.	TEMPER		GAUGE	WIDTH	LENGT	1	shipped under this order has				
77	d:	75	Į	00	T651	3	.00000	60.50	0 144.	500	conformance with the requ				
ITEM	ф	ROERED					_	·,,		- CH - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	specifications as indicated he				
M	dı	D P	LAT	E - D	IST GE					1	to that shown on Constelliur General Terms and Condition				
					SAWED	MI	LL				on file, subject to examination		est n	sports a	116
		MER SPE				· · · · · · · · · · · · · · · · · · ·	**						AAUTA	nd 116	^
(A)	Л.	s - Q Q	- A -	250	(12)						Constellium Rolled Pr Rt 2 South	Century Ro	ad	uu, LL	
		UMBER				B/L NUN	/BEA		DATE SHIPE	EO	P.O. PAVENSWOO	3OX 68			
A	ı,	FLRO	1 00	Z			P126	0.0	05/24/	13	DI	5 11			
		SHIPPE			OF PIECES	GC	VT. CONTRAC		1037 277		1 odney J. 1	cery			
		1.1	,12	n		a				l	Rodney J. Felly • Laborator,	Manager		<u> </u>	
L	+	4 4	7.1.	<u></u>	·					1			,		

	LOT	Т	I NO	OE	ULTIMAT	E STRE	NGTH K.S.I.	1	YIELI	STREN	GTH K.S.I		T	ELONGA	FION %		Τc	OND	% I <i>F</i>	ίĊ
1	NUMBER	DIRECT	ON TES	rs –	MIN.	T	MAX.		MIN.		MAX	****	Mi		***************************************	AX,		IN	MAX	
4	01841	LT		2 **	*** T 80.8		, ',		70.8	3	71.	×	**** 12	Verti varante a c		2.5				Span,
	A11	nater	ial	con	taine	d j	in lot	401	841	was	cas	st a	nd m	anuf	acti	ured	in	the	USA	١.
	ALL	OTS	ON T	HIS	CERT	IFI	CATIO	N AL	SO (CONF	ORM	TO	THE.	FOLL	OWI	NG R	E Q U	IREM	ENTS	\$
			A	STM	B209) - 1 0	,AMS	4045	K								-			
			Ì																	
·						<u>, </u>					- 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 -	· · · · · · · · · · · · · · · · · · ·				·····				-
c	ALLOY	SILIC	,		SON	·	OPPER	MANG			GNESIUM	******	HOMIUM		ZINC		TITA	4	OTH	
CH		MIN.	MAX.	MIN.	MAX.	MIN.		MIN.	MAX.	MIN.	(AM	C MI	N, MA	X. M	IN. A	ЛАХ:	MIN.	MAX.	EACH MAX	_
Ä	SEE A	CTUAL	CHE	MIC	AL CO	MP(SITIO	N								İ				
COMP		i		I		1	1 1		1	1	i	1	- 1	- 1		i i		i	1 1	



P-860-155D (06/11)

Cust.

THYSSENKRUPP

MATERIALS

NA

ECAD

Del.:

2402545986

From:



Constellium

COPPER & BRASS SALES

1015 SAINT JEROME STREET

IN



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD

MI

46544

MISHAWAKA

ThyssenKrupp 48086 SERIAL#: 20130522P12605 PCOPPER&BR P12605 4075 INCLUSION

Constellium ORDER PAGE CERTIFICATION 110-513101 WIDTH 5400179097 "Constellium Rolled Products, hereby certifies that metal MILOY □7075 TEMPER GAUGE shipped under this order has been inspected and found in conformance with the requirements of the applicable 00 3.00000 60.500 144,500 T651 specifications as indicated herein. Any warranty is limited MOLD PLATE-DIST GE to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are PLATE, SAWED MILL on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA B/L NUMBER DATE SHIPPED P12600 GOVT. CONTRACT NO. 05/24/13 NO. OF PIECES

Γ	-	LOT		Τ.	EST	NO.	DE	ULTI	MATE ST	RENG	TH K.S.1	• • • • • • • • • • • • • • • • • • •		YIELC	STRE	NGTH K	.s.i.	<u> </u>	ELON	GATION	%	1	CONE	%	ΙA	cs
1	N	LOT	Ħ	DIR	ECTIO	NO. TES	TS	MI	٧,	T	MAX.		1	MIN.		, A	IAX.		MIN.		MAX,		MIN		MAX	
	40	18	41) c	CR:	= 0. = 0. 1ERS	20		FE= ZN=	0. 5.	13 55		CU:	= 1. = 0.	. 51 . 03		SITIO MN= ZR= .15	0.0 0.0	1		= 2.0 Main					
																-		Object to the				MARINE PROPERTY AND ADDRESS OF THE PARTY AND A				
-	-T			<u> </u>	SILICO	<u> </u>		RON	·····	COPI	hth	Т.	ANGA	NÉCE		AGNES	in I c	HROMIL	134	ZII		T17	ANIUM		OTH	- DQ
0		ALI	OY.	-	SILIC	MAX.	MIN.	MA	, ,	IIN.	MAX.		IN.	MAX.	MIN	***************************************	AAX. M		MAX.	MIN;	MAX.	MIN.	MA	, 1	EACH	
EES COSE	ł	SEE	Α	¢τι	N. JAL				СОМІ							A REMA									WAS	WEVS.



P-860-155D (06/11)



From: Cust.

ThyssenKrupp

THYSSENKRUPP MATERIALS

ECAD

Constellium

46544



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

SERIAL#: 20130522P12605 COPPER&BR P12605 4075 INCLUSION Constellium ORDER PAGE 3 OF CERTIFICATION 5400179097 110-513101 WIDTH LE *Constellium Rolled Products, hereby certifies that metal TEMPER GAUGE shipped under this order has been inspected and found in ₩**7075** conformance with the requirements of the applicable 00 3.00000 60.500 T651 144.500 specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard MOLD PLATE-DIST GE General Terms and Conditions of Sales. Test reports are EC PLATE, SAWED MILL on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA AMS-QQ-A-250/12 B/L NUMBER DATE SHIPPED ALFLR01006 P12600 GOVT. CONTRACT NO. 05/24/13 NO. OF PIECES

De WEKG	HT SHIPPED	NO.	OF PIECE	s GOVT	CONTRACT NO.				· •	· Laboratory Mar			
<u> </u>	11,	120	·, · · · · ·	4				· ·	nouriey a. reij	y - Laboratory Mar	7	est. 10	
:	<u> </u>		T		 	· · · · · · · · · · · · · · · · · · ·						-	
2	LOT UMBER	TEST DIRECTION	NO. OF		FRENGTH K.S.I.		ENGTH K.S.			ATION %) % I	
40			1	MIN.	MAX.	MIN.	MAX	ζ,	MIN.	MAX.	MIN	MA	Х
5 4	PPROV	AL OF	THE	LABORAT	NOT BE RE	THORIZED	QUAL	LITY	DELEGA	TE.			
∞				MAY BE	FICTITIO PUNISHED	AS A FEL	ONY	UNDEI				ES O	N
	CHEMIS	TRIES	REPO		PERCENTA							ļ	
					TEST REG				RASTM	E399.			
					RED, TEST	ED PER A	STM I	E8;]	3557.				
		lumber		ALFLR01 0570149	; CAGE C	de: 1YV	L9				·		
					contami s were u								
	:			"END	OF CERTII	ICATION			1.				
											ļ.	***************************************	
[_T	ALLOY	SILICON		IRON	COPPER I	MANGANESE I	MAGNESIUN	и сн	ROMIUM	ZING	TITANIUM		HERS
. B		1274. 17		., .,		IIN. MAX. MI	N. MA	X. MI	N. MAX.	MIN. MAX.	MIN. MA	x EACH	TOTAL MAX
7 12 5	SEE AC	TUAL	CHEM:	CAL COM	POSITION								
- 8 •								ŀ					
								ł					
/						ALUMINU	M REMAIND	ER	,				



P-860-155D (06/11)





INSPECTION CERTIFICATE № 12.38494



EN 10204 - 3.1

Certified by Russian Registe

Consigner: KAMENSK URALSKY METALLURGICAL WORKS JOINT STOCK COMPANY 5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: (3439) 39 52 22 Fax: (3439) 39 50 68 Quantity: Thyssen Krupp Materials NA 2550 Net Weight, kg. N14046 Contract number: Specification No. N14046-S 5400164265-R01 Leve Fire: Package Nr. 614611 Ariicle number: ALFLR01006 Description of Goods: Plates Requirements on the Products: Material conforms to quality of alloy: 7075 T651 Grade of Product Dimensions, inch/mm Product conforms to all requirements of: 3.03"X60.5"X144.5" ASTM-B209-10,AMS-QQ-A250/12AMS4045K, This 76.960X1536.7X3670.3 product conforms to European Union RoHS Directive 2002/95/EC Mechanical Properties Yield Strength (0,2% offset) Elongation, % Herdness, HB Lot Number Cast Number Number of Tennile Condition Tests Strength of Tested Standards ksi - Jittik min max min Wax. 71.0 58.0 5.0 Required 12.5 8.5 20-5588 81.1 81.8 70.7 71.0 717246 Chemical Composition, % Zirconlum Mickel Titentum Element Manganese Magnesium Chromlum Zine Silicon Iron Copper T1. Žτ Ni Ž'n 0. 5.1-6.1 0.3 2.1-2.9 0.18-0.28 0.5 1.2-2.0 0.4 Required 5.8-5.9 0.08 0.19 2.4 Contents 0.05 0.16-0.17 0.08Other Elen Al Element The Blemuth Plumbum Each Tota Mn+Cr ₽b 71+2 Na Sn 0.15 remainder 0.0 Required 0.05 0.15 remainder Contents Other Tests SCI Contants H2 111 Method Magro-Micro-Electroconductivity of meta atructum structure Mercury - Free cm3/100gr "Russia is country of melt and manufacture" 0.25 Result

On behalf:

OAO KUMZ

Date:
Inspector:
Inspection Depart

G.A.Ostanina

19,12.12

N.V. Alekhina

Form Nº QAD/3-001 Revision 00

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545986

CstAr

CstOr 249568

Date 06/20/2013

John Jambetts

Wgt.: 2,156.000 LB





INCLUSION

CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA

46544

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

SERIAL#: 20121125F76601

48086

F76601 1800 COPPER&BR CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512719 5400157805 LENGTH TEMPER GAUGE ALLOY

6.00000 73.000 118.250 7075 00 T651 TEM ORDERED

TOOLING PLT-DIST/GE

SPEC PLATE, SAWED MILL

CHSTOMER SPECIFICATION AMS-QQ-A-250/12

DATE SHIPPED B/L NUMBER 11/26/12 ALFLR00645 F76600

GOVT. CONTRACT NO. WEIGHT SHIPPED NO. OF PIECES 2 10,810

CERTIFICATION

PAGE

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

	LOT		TES	er .	NO. OF	U	LTIMAT	E STR	ENGTH	K.S.I.		YIEL	D STRE	NGTH I	K.S.I.			ELONGA"	TION %			-		5 LA	
Ν	UMBER		DIREC	TION	NO. OF TESTS		MIN.			MAX.		MIN.			AAX.			MIN.		MAX.		MΙ	N	MAX	
32	2407		ı	т	2		51.4	1	6	52 . 7		44.			5.9			3.5		.3.5			, ,	****	
	All	. n	nate	ria	1 c	onta	ain∈ 	ed 	in 	lot 	324	1071	wa 	s c	ast 	ar	1d 1	manuf	act	ure	d 1	.n 	tne	USF	-
	ALI	. I	OTS	01	TH	s c	CER!	FIE	ICA	ATIOI	ı Ai	SO	CON	FOR	M TC) 1 	HE	FOLI		NG	REÇ	UI 	REM	ENTS	3
					RO AM	PERTS 40	TIE:	S A K A	RE ND	MN N ASTI	JIT M B2	60- 209-	MN 10	YLD	=43;	: 1	IN	ELONG	; =5	58				-	
				4:																					
					74																				
		-		ILICON		IRO	Nt.		COPP	FR	MANG	3ANESE		MAGNE	SIUM	СН	ROMIL	ML	ZINO		ĪŢ	ITAN	UM	ОТН	ER
2	ALLC	Y	MIN.			MIN.	MAX.	-	IN.	MAX.	MIN.	MAX.	М	N.	MAX.	MI	۷.	MAX. N	AIN.	MAX.	MIN	J.	MAX.	EACH MAX.	TC
CHEM COMP	SEE	A	-			IICA	L C	СМЕ	POS	ITIC	N									- - - -					

P-860-155D (06/11)

Wgt.: 527.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Date 06/20/2013

John R. Zambe



10,810



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

46544

48086

SERIAL#: 20121125F76601 COPPER&BR F76601 1800 INCLUSION CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512719 5400157805 GAUGE TEMPER ALLOY 118.250 6.00000 73.000 7075 00 T651 TEM ORDERED TOOLING PLT-DIST/GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS - QQ - A - 250/12DATE SHIPPED B/L NUMBER PART NUMBER 11/26/12 F76600 ALFLR00645 GOVT, CONTRACT NO. WEIGHT SHIPPED NO. OF PIECES

2

COPPER & BRASS SALES P.O. BOX 5116 MI SOUTHFIELD

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are

CERTIFICATION

PAGE

2 OF

on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

LOT	TEST	NO. OF	OLIMATE	SINENG	TH K.S.I.		YIELDS	TRENGTI	1 N.S.I.			ATION 9		- R/	COND	MAX	- -
NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.	IV.	ITN	INTAX	
OF ALL WITHIN MATERIA CHARACT DESCRIA THOSE T BE USEI	APPLICATION APPLIC	ABLI ZE I BE I CS I RENG OF PLIG	OVER 4 SPECI ANGE O NADVER XPECTE TH AND MATERI ATIONS FORE Y	FICA F AP TENT D OF CTH AI I WHI	TION: PLICA LY U: THICA ER CI N THI CH RI	ABLE SED CKNE HARA E NC	INCE SPEC IN AF SS 4' CTERI RMAL RE CF	THE ZIFI ZIC AN STI SIZ IARA	MAJO: CATION: ATION: D BEL: CS CA! E RAN: CTERI	RIT: NS, S WI OW. N BI GE. STI	Y OF 1 OUR (HICH: FOR (E EXP) THIS CS EX	METI CON REQ THE ECT MA PEC	AL IS CERN UIRE MATE ED TO TERIA TED I	S SU IS ERIA D DI AL S	THAT L SHOUL	ED FRO D NO	PΤ
	SILICON	1	IRON	COP	PER	MANG	ANESE	MAGN	ESIUM	CHRON	MUM	ZII	VC .	TITA	ANIUM	ОТН	
C ALLOY			MIN. MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOT
E	CTUAL	CHEM	ICAL CO	мроз	ITIC	N											

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Wgt.: 527.000 LB

Date 06/20/2013

John Bunboth





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MΤ

48086

46544

F76601 1800 COPPER&BR

INCLUSION

SERIAL#: 20121125F76601

PAGE

CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512719 5400157805 TEMPER GAUGE WIDTH LENGTH 00 T651 6.00000 73.000 118.250 7075 TEM ORDERED TOOLING PLT-DIST/GE MILL SPEC PLATE, SAWED CUSTOMER SPECIFICATION AMS-QQ-A-250/12 PART NUMBER B/L NUMBER DATE SHIPPED F76600 11/26/12 ALFLR00645 NO. OF PIECES GOVT, CONTRACT NO. WEIGHT SHIPPED 2 10,810

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

NUMBER TEST NO.0 MIN. MAX MIN.	LOT	TEST	NO DE	ULTIMATE	STRENG	TH K.S.I.		YIELD S	TRENGT	HK.S.I.		ELC	NGATION	1%		OND 3		- 1
C SI = 0.06 FE = 0.11 CU = 1.44 MN = 0.03 MG = 2.53 CR = 0.20 ZN = 5.53 TI = 0.04 ZR = 0.01 OTHERS - EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER ALLOY MIN	NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.	М	ıΙΝ	MAX	
CR= 0.20 ZN= 5.53 TI= 0.04 ZR= 0.01 OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER SILICON IRON COPPER MANGANESE MAGNESIUM CHROMIUM ZINC TITANIUM OTHERS ALLOY MIN MAX. MI					actu.	AL CH	IEMI	CAL (COMP	OSITI	ON					:		
OTHERS—RACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER SILICON SIRON COPPER MANGANESE MAGNESIUM CHROMIUM ZINC TITANIUM OTHERS	(324071)	C SI=	0.06	FE	= 0.	11	CU	= 1.4	14	MN=	ф.	03	MC	€= 2.5	3			
ALLOY MIN. MAX.		OTE	: 0.20 IERS-I	ACH: .	= 5. 05 M	53 AX. (THE	= 0.0 RS T(JATC	: .15	MA	Х. А	L RE	EMAINE	ER			
ALLOY MIN. MAX.																		
ALLOY MIN. MAX.	:																	
ALLOY MIN. MAX.																		
ALLOY MIN. MAX.																		
ALLOY MIN. MAX.																		
ALLOY MIN. MAX.		·																
ALLOY MIN. MAX.									,									
ALLOY MIN. MAX.													ļ					
ALLOY MIN. MAX.		-	ŀ												ļ			
ALLOY MIN. MAX.				ļ.					ļ									
ALLOY MIN. MAX.									.									
ALLOY MIN. MAX.							ļ											
ALLOY MIN. MAX.	 	SILICO		IRON	COP	PER I	MANG	ANESE	MAGN	IESIUM	CHRC	міим		INC	TITA	NIUM		
M SEE ACTUAL CHEMICAL COMPOSITION	C ALLOY								MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	M SEE A	CTUAL	CHEM	ICAL CO	MPOS	ITIC	N											
P ALUMINUM REMAINDER	CO													,				
	P					Ll		ALUN	IINUM RE	MAINDER						.l	L.,	

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

P-860-155D (06/11)

CstOr 249568

Wqt.: 527.000 LB

Date 06/20/2013

John Bembett





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA

NO. OF PIECES

46544

WEIGHT SHIPPED

10,810

COPPER & BRASS SALES P.O. BOX 5116 MT SOUTHFIELD

48086

SERIAL#: 20121125F76601 COPPER&BR F76601 1800 INCLUSION CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512719 5400157805 LENGTH TEMPER GAUGE ALLOY 6.00000 7075 73.00d 118.250 00 T651 TEM ORDERED TOOLING PLT-DIST/GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12DATE SHIPPED B/L NUMBER PART NUMBER 11/26/12 F76600 ALFLR00645

2

GOVT, CONTRACT NO.

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

PAGE

4 OF

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

COND % LACS ULTIMATE STRENGTH K.S.I. YIELD STRENGTH K.S.I. **ELONGATION %** TEST DIRECTION LOT NUMBER MIN MAX MIN. MIN. MIN. WITHOUT THE WRITTEN THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE CUNISHED AS A FELONY UNDER FEDERAL LAW. CHEMISTRY BY OES: ARKSPARK CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT. WHEN TRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E\$99. WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; \$557. Mark Paperwork: |ALFLR00645 090570149; CAGE Cdde: 1YWL9 DUNS Number: Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its dompounds were utilized in the manufacture of our product. "END OF CERTIFICATION" OTHERS TITANIUM MAGNESIUM CHROMIUM COPPER MANGANESE SILICON IRON ALLOY EACH TOTAL MAX. MAX. MIN. MAX. MIN. MAX. MIN MIN. MAX. MIN. MAX. MIN. MAX. SEE ACTUAL CHEMICAL COMPOSITION COMP ALUMINUM REMAINDER

P-860-155D (06/11)

Wgt.: 527.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Date 06/20/2013

John Jumbeth





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD ΜI

on file, subject to examination."

48086

COPPER&BR

46544

D00601 1800

INCLUSION

SERIAL#: 20120919D00601

PAGE

CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512555 5400141009 ALLOY LENGTH TEMPER GAUGE 60.50d 144.500 00 6.00000 7075 T651

TEM ORDERED TOOLING PLT-DIST/GE

SPEC PLATE, SAWED

MILL

CUSTOMER SPECIFICATION AMS-QQ-A-250/12

DATE SHIPPED PART NUMBER 8/I NUMBER 09/20/12 D00600 ALFLR00645 NO. OF PIECES GOVT. CONTRACT NO.

WEIGHT SHIPPED 5,480

1

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal

shipped under this order has been inspected and found in

conformance with the requirements of the applicable

specifications as indicated herein. Any warranty is limited

to that shown on Constellium Rolled Products' standard

General Terms and Conditions of Sales. Test reports are

LOT	TEST	NO. OF	ULTIMATE	STRENGTH	ı K.S.I.		YIELD ST	RENGTI	1 K.S.I.		ELONGA	TION %)	1	OND :		
LOT NUMBER	TEST DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.	M	IN	MAX	
(310191)	LT	2	**** T6	551 8	0.5		69.9		70.2	**	*** 12.0	1	2.5				
All m	ateri	al co	ntained	l in	lot	310	191 w	as 	cast	and	d manuf	act	ured	in	the	USA	· ·
ALL I	OTS O	N TH	S CERT	FICF	MOITA	AL	SO CO	NFO	RM TO	TI	HE FOLI	ipmi	NG R	EQU	IREM	ENTS	5
		ROI AMS	ERTIES 4045K	ARE AND	MN U ASTN	JIT 1 B2	60-MN 09-10	YL	D=43;	IMI	N ELONG	; =5	5%				
																	-
																-	
	SILICO	N	IRON	COPP	ER	MANG	ANESE	MAGN	ESIUM	CHR	MUIMC	ZIN	c	TITA	NIUM		ERS
C ALLOY H E	MIN.	MAX.	AIN. MAX.	MIN.	MAX.	MIN.	MAX.	AIN.	MAX.	MIN.	MAX. N	AIN.	MAX.	MIN.	MAX.	MAX.	TOTA MAX.
M SEE A	LAUT	CHEM	ICAL CO	MPOS:	ırıdı	Ŋ											
8							-				1 1						
MP			1.								<u> </u>						
1 1							ALUMIN	IUM RE	MAINDER								

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

P-860-155D (06/11)

CstOr 249568

Wgt.: 527.000 LB Date 06/20/2013 John Bunber





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

46544

5,480

COPPER & BRASS SALES P.O. BOX 5116 MΙ SOUTHFIELD

48086

SERIAL#: 20120919D00601 COPPER&BR D00601 1800 INCLUSION CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512555 5400141009 GAUGE WIDTH TEMPER ALLOY 144.500 6.00000 60.50d 7075 00 T651 TEM ORDERED TOOLING PLT-DIST/GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS - QQ - A - 250/12DATE SHIPPED B/L NUMBER PART NUMBER 09/20/12 ALFLR00645 D00600 GOVT. CONTRACT NO. WEIGHT SHIPPED NO. OF PIECES 1

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

PAGE

2 OF

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

LOT	TEST	NO. OF	ULTIMATE	STRENGTH K.S.I.		YIELC	STREN	ЭТН К.S. I.		ELONGAT				MAX	CS
NUMBER	DIRECTION	TESTS	MIN.	MAX.		MiN.		MAX.		MIN.	MAX.	_ 1	MIN	I-IL-XX	
THIS MA OF ALL WITHIN MATERIA	APPLI THE S	ABLI IZE I	ANGE O	" IN TH FICATION F APPLIATED	NS. CAB	SINCI LE SPI	E TH	E MAJO	RIT NS,	Y OF M OUR C	PNCERN -	វ នុំរ	JPPLII	IGE ED	
CHARACT DESCRIE IHOSE T BE USET	ERIST ED, S YPICA IN A	CS I PRENC OF PPLIC	XPECTE TH AND MATERI TATIONS	D OF TH CTHER AL IN T WHICH	ICK CHA HE REQ	NESS 4 RACTEI NORMAI UIRE (l" A RIST L SI CHAR	ND BEL ICS CA ZE RAN ACTERI	OW. N B GE. STI	FOR T E EXPE THIS CS EXP	HE MATE CTED TO MATERIA ECTED 1	N L L L	IFFER SHOUL	рис	PΤ
SIZE RA MISAPPI	NGE;	THER	FORE Y	OUR CAR	EFU	L CON'	rrdi	IS NE	CES	SARY T	♦ PREVI	ENT			
	SILICON	,	IRON	COPPER	N	MANGANESE	МА	GNESIUM	CHRON	AIUM	ZINC	TIT	ANIUM	ОТН	
C ALLOY	MIN. N	AX. I	IN. MAX.	MIN. MAX.	М	IN. MAX.	MiN.	MAX.	MIN.	MAX. M	IN. MAX.	MIN.	MAX.	EACH MAX.	MA
SEE A	TUAL	СНЕМ	ICAL CO	MPOSITI	CN										
P				I	—	Al 1	MINUM	REMAINDER							

Wgt.: 527.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Date 06/20/2013

John Bembeth





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

46544

WEIGHT SHIPPED

5,480

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

COPPER&BR D00601 1800

NO. OF PIECES

INCLUSION

SERIAL#: 20120919D00601

PAGE 3 OF

CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512555 5400141009 WIDTH LENGTH GAUGE ALLOY TEMPER 6.00000 60.500 144.500 T651 7075 00 TEM ORDERED TOOLING PLT-DIST/GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12B/L NUMBER DATE SHIPPED PART NUMBER ALFLR00645 09/20/12 D00600

1

GOVT, CONTRACT NO.

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

LOT	TEST	NO. OF	ULTIMATE	STRENGT	TH K.S.I.		YII	LD STR					GATION '		1 -	TN OND	₹ 1.7 TMA	AC:
NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.		ļ	MAX.		MIN.		MAX.	11.7	T 1.A	11111	
				aqtu.	AL C	HE	MICA	r cc	мро	SITI	ON							
310191				= 0.	14		CU=			MN=			NG	= 2.5	1			
	CR= OTHI	0.21 IRS-E	ZN ACH: .	= 5. 05 M	58 AX.	TO	TI= HERS	COT	AL:	ZR= .15			L RE	MAIND	ER			
			-															
													ļ					
	-																	
-T		<u></u>	10011	COPI	ncn	1 4	ANGANES	- 1	MAGNE	20114	CHRON	tit IAA	ZIN	NC 1	TITA	NIUM	OTI	IERS
ALLOY	SILICON MIN. N		IRON MIN. MAX.	MIN.	MAX.	MI				MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	
			ICAL CO		ידיידר	N												
AU TIL	TOAT					[
									1			· ·				İ		l

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Wgt.: 527.000 LB

Date 06/20/2013

John R. Zambeth





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

46544

COPPER&BR D00601 1800 CUSTOMER PURCHASE ORDER NO. & ITEM

INCLUSION

Constellium ORDER NO.

SERIAL#: 20120919D00601

PAGE 4 OF

CERTIFICATION

110-512555 5400141009 GAUGE WIDTH LENGTH ALLOY TEMPER 7075 00 T651 6.00000 60.500 144.500 ITEM ORDERED

TOOLING PLT-DIST/GE

SPEC PLATE, SAWED

MILL

CUSTOMER SPECIFICATION

AMS - QQ - A - 250/12

B/L NUMBER DATE SHIPPED PART NUMBER 09/20/12 D00600 ALFLR00645 NO. OF PIECES GOVT, CONTRACT NO.

WEIGHT SHIPPED

5,480

1

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

	LOT	TEST	NO. OF	ULTIMATE S	TRENG	TH K.S.I.	1.	YIELD ST	RENGTI	i K.S.I.		ELONG	ATION %	,		OND		
	NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.	M	IN	MAX	
	APPROV	AL OF CORDIN	THE IG OF	SHALL LABORAT FALSE, MAY BE	CRY FI	OR A	UTH CUS	ORIZE	E Q	UALIT UDULE	Y DI NT :	ELEGAT STATEN	PĖ. MENT	'S OF				
				CHEM	IST	RY BY	OE	S: AR	KSP	ARK								
	CHEMIS	TRIES	REPO	RTED IN	PE	RCENT	'AGE	BY W	EIG	HT.								
	WHEN E	RACTUE	E TO	UGHNESS	TE	ST RE	Edui	RED,	TES	TED P	ER.	ASTM I	Ξ₿99					
	WHEN I	ENSILE	TES	T REQUI	RED	, TES	STEC	PER	AST	M E8;	B 5	57.						
	Mark E	aperwo	rk:	ALFLR00	645													
	DUNS N	umber	0,9	0570149); C	AGE (Code	1 1 Y	WL9									
	Mercui nor ar	y is and any of :	not a	normal ompound	. cc	ntam: ere u	inan util	nt in .ized	alu in	minum the m	al anu	loys a	and re o	neit of ou	her ir p	mer rodu	cury	У
				"END	dF	CERT	IFIC	CATION	ı,ı	÷								
-	T	SILICON		IRON	COP	PER	MANG	ANESE	MAGN	ESIUM	CHRO	MUM	ZIN	С	TITA	NIUM		ERS
C H	ALLOY			IIN. MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
E M	OFF A	TOTTA	спем.	ICAL CO	/IDO	TTTC	VI									i		
CO		TION '	спим.	TOWN COL	TE Or		. •											
MP																		<u></u>
1	1							ALUM	NUM RE	MAINDER								

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Wgt.: 527.000 LB

Date 06/20/2013

John Bembeth





PAGE

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal

shipped under this order has been inspected and found in

conformance with the requirements of the applicable

specifications as indicated herein. Any warranty is limited

to that shown on Constellium Rolled Products' standard

General Terms and Conditions of Sales. Test reports are

1 OF

Constellium Rolled Products Ravenswood, LLC





COPPER & BRASS SALES 1015 SAINT JEROME STREET IN MISHAWAKA

46544

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD

48086

SERIAL#: 20130205K04903 INCLUSION COPPER&BR K04903 1800 CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512841

5400166526 WIDTH LENGTH GAUGE TEMPER 118.250 6.00000 73.000 7075 00 T651

TEM ORDERED

TOOLING PLT-DIST/GE

SPEC PLATE, SAWED

MILL

STOMER SPECIFICATION AMS - QQ - A - 250/12

B/L NUMBER PART NUMBER 02/05/13 K04900 ALFLR00645 NO. OF PIECES GOVT, CONTRACT NO. WEIGHT SHIPPED

10,850

2

DATE SHIPPED

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

on file, subject to examination."

LOT	TEST	NO. OF	ULTIMATE	STRENGT	H K.S.I.	\top	YIELD S	TRENGT	H K.S.I.		ELONGA	TION %				δIA	
NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.	N	AAX.	M.	LN	MAX	
348891	LT	2	**** T6		62.9		45.9		46.3		*** 12.5	1	3.0		,		
All	materia	l co	ntaine	in	lot	348	891 1	was	cast	and	d manuf	act	ured	in	the	USA	
ALL	LOTS O	TH:	S CERT	IFIC	OITA	AI	SO C	ой ео	RM TO		HE FOLI	 owi	NG R	EQU	IREM	ENTS	,
		ROI AM:	ERTIES 4045K	ARE	MN U ASTI	JIT 4 B2	60-M 209-1	O YI	D=43;	M	N ELONG	5 .=5	9				.;
									1500114	AUG	OMIUM	ZINO		TITA	NILIM	ОТН	FRS
C ALLOY	SILICON		IRON MIN. MAX.	COP MIN.	PER MAX.	MANO MIN.	MAX.	MAGI MIN.	MAX.	MIN.		MIN.	MAX.	MIN.	MAX.		TOTAL MAX.
C ALLOY HE M SEE Z			ICAL CC					MINUM RE	MAINDER								

P-860-155D (06/11)

Wgt.: 527.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Date 06/20/2013

John Bambots.





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

46544

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

COPPER&BR K04903 1800 INCLUSION SERIAL#: 20130205K04903 CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512841 5400166526 ALLOY TEMPER GAUGE WIDTH LENGTH 7075 00 T651 6.00000 73.00d 118.250 ITEM ORDERED TOOLING PLT-DIST/GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS - QQ - A - 250/12DATE SHIPPED PART NUMBER B/L NUMBER K04900 02/05/13 ALFLR00645 WEIGHT SHIPPED NO. OF PIECES GOVT, CONTRACT NO. 2 10,850

CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

PAGE

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

P-860-155D (06/11)

Wgt.: 527.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Date 06/20/2013

John Bemboth





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

118.250

DATE SHIPPED 02/05/13

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

46544

CUSTOMER PURCHASE ORDER NO. & ITEM

00

TOOLING PLT-DIST/GE

SPEC PLATE, SAWED

AMS - QQ - A - 250/12

10,850

COPPER&BR

5400166526

CUSTOMER SPECIFICATION

ALFLR00645

WEIGHT SHIPPED

ALLOY

7075

TEM ORDERED

K04903 1800

TEMPER

T651

NO. OF PIECES

INCLUSION

WIDTH

GALIGE

MILL

B/L NUMBER

2

6.00000

K04900

GOVT. CONTRACT NO.

Constellium ORDER NO.

73.000

110-512841

SERIAL#: 20130205K04903 PAGE CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

3 OF

LOT	TEST	NO. OF	ULTIMA.	TE STRENG	TH K.S.I.		Y	ELD STR	ENGTH P	(.S.I.		ELONG	ATION 9	0				CS
LOT NUMBER	DIRECTION	NO. OF TESTS	· . MIN.		MAX.		MIN	l.		MAX.		MIN.		MAX.	IM.	IN	MAX	
				ACTU	JAL (CHE	MICA	L CC	мро	SITIC	DIA							
348891	C SI=	0.07	F:	E= 0.	15		CU=	1.53		MN=			NG=	= 2.4	6			
	CR=	10.19	b Zi	N= 15.	55		TI=	0.03	1	ZR=	р.о	1	1		_]			
	OTH:	ERS-I	ACH:	.05 M	IAX.	ro	HERS	TOT	AL:	.15	MAX	. AL	REI	MAIND	ER			
															İ			
											ļ							
											ŀ				İ			
													ļ					
											-							
											1							
							ļ'											
									1									
					PPER	т.	MANGANE	ec l	MAGNE	CHIMA I	CHROM	II IM	ZIN	ıc	TITA	NUM	ОТН	ERS
ALLOY	SILICO MIN.		IRON MIN. MAX.		MAX.				IN.		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TO
E	-					+			\neg									
SEE A	LAUTDA	CHEM	TOWN C	JMFO	7.1.1	7												
A							1	ĺ	Ì							1		

P-860-155D (06/11)

Wgt.: 527.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Del.: 2402545990

CstAr

CstOr 249568

Date 06/20/2013

John R. Jamber





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

46544

K04903 1800

INCLUSION

SERIAL#: 20130205K04903

PAGE

4 OF

COPPER&BR CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 110-512841 5400166526 GAUGE WIDTH ALLOY TEMPER 6.00000 73.000 118.250 7075 00 T651 TEM ORDERED TOOLING PLT-DIST/GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS - QQ - A - 250/12DATE SHIPPED B/L NUMBER PART NUMBER 02/05/13 ALFLR00645 K04900 WEIGHT SHIPPED NO. OF PIECES GOVT, CONTRACT NO. 2 10,850

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

LOT	TEST	NO. OF	ULTIMATE S	STRENGT	TH K.S.i.	T	YIELD STI	RENGTH K.S.	ı.	ELONGAT	ION %	C	ZND		
NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.	MA	ζ,	MIN.	MAX.	M.	ΓN	MAX	
APPROV	VAL OF ECORDII	THE	' SHALL LABORAT ' FALSE, MAY BE	'CRY FI	OR A	AUTH IQUS	ORIZE , OR	D QUA. FRAUD	JLENT JLENT	ELEGAT STATEM	E. Ents or	- 1			
			CHEM	IIST	RY B	OE	S: AR	KSPAR	K						
CHEMI	STRIES	REPO	RTED IN	1 PE	RCEN'	rage	BY W	EIGHT	•						
WHEN	 RACTU	RE TO	UGHNESS	TE	ST RI	EQUI	RED,	TESTE	D PER	ASTM E	399.				
WHEN '	TENSIL	E TES	T REQUI	RED	, TES	STEL	PER	ASTM	E8; B5	57.					
Mark	Paperw	erk:	ALFLR00	645											
DUNS :	Number	09	0570149); C	AGE (Cdd∈	: 1Y	WL9							
Mercu nor a	ry is ny of	not a	norma	L co ds w	ntam ere	inar util	nt in .ized	alumi in th	num al e manu	loys a Ifactur	nd neit	her ir p	mer rodu	cury	Y
			"END	dF	CERT	IHIC	CATION	77							
	SILICON		IRON	COP	PER I	MANG	ANESE	MAGNESIU	u CHRO	MIUM	ZINC	TITA	NIUM	ОТН	ERS
C ALLOY			III. MAX.	MIN.	MAX.	MIN.	MAX.	AIN. MA	X. MIN.	MAX. M	IN. MAX.	MIŅ.	MAX.	EACH MAX.	TOTA MAX.
E	CTUAL	CHEM	ICAL CO	MPOS	ITIC	N		ļ.					ľ		
c		İ							ļ					ļ į	
Ŏ M		1			1		1 1	ŀ	l	1			l		

P-860-155D (06/11)

Wgt.: 527.000 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402545990

CstAr

CstOr 249568

Date 06/20/2013

John R. Zambeth

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet. 1444880 Ship Date B.L. No.

00000 Invoice No. Alcoa No. Item 1000420518-7

DP-20518-7

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictificus, or otherwise fraudulent statements or entries on this certificate by any recipient may be purished as a felony under applicable law. P.O. No./Govt Contract No. 5400155433 Ln#: 0070 C&B Customer Alcoa Item G041014515R08

2012-10-18

7439252

Rob Woodall
Director of Manufacturing Davenport Works

Page 1 of 2

Ship To: COPPER & BRASS SALES INC 1015 SAINT JEROME ST. MISHAWAKA 46544 IN

6.03 IN TK (+.260 -0.00) X 60.5 IN W (+.500 0.000) X 144.5 IN IN (+.5 -0.0) (N) A/T 70757651 RECTANGULAR MILL FINISH, SAWED. EXC MRK, PROP, TK (AMS-Q
250/12) IS 2007 EXC MRK, PROP, TK AMS4045 REV K EXC MRK, PROP,
TK ASTMB209 REV 10 ((MARKED)) KRAFT PAPER
INTERLEAVED MAX GROSS SKID WGT: 6000 LB QUAN TOL +/-40 % CQR 0164707 REV 07 CUST REQ 12-10-17 *** W/E 12-10-20 *** Item Description AMS-00-A-

Num 449914 Package Ticket 587641 5494 Weight Quantity MON БС Inspector Clock Numbers

cgr: 0164707.7 -Specification Limits

Long Transv. Max UIS KSI 59 TYS 40 EL4D PCT

Tmpr T651

Impr 1651 Alloy 7075 Chemical Composition 587641 Long Transv. Mechanical, Max No-> Test 2 Physical, Metallography, SI FE CU MN MG CR ZN TI Each 0.40 0.50 2.0 0.30 2.9 0.28 6.1 0.20 0.05 1.2 2.1 0.18 5.1 KSI 71.2 70.1 KSI 58.9 57.6 Quantometer Results PCT 8.2 8.4 EL4D Other Other Total 0.15 Alumi num

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402545990

CstAr

Wgt.: 527.000 LB

CstOr 249568

Date

06/20/2013

CERTIFIED INSPECTION REPORT

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per:

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Alcoa inc.

1444880 Ship Date 2012-10-18

B.L. No. 7439252

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

RIVERDALE, IA.

Ship From:

Customer Alcoa Item Invoice No. 1000420518-7 Alcoa No. Item

DP-20518-7.

P.O. No./Govt Contract No. 5400155433 Ln#: 0070 C&B G041014515R08

Page 2 of 2

Terrence Thom Quality Assurance Manager

Rob Woodail
Director of Manufacturing Davenport Works

Rod of Wooded

Lot: 587641 Cast Number H9020021 - Mechanical, Physical, Metallograpy, Quantometer Results (cont.) -- Chemical - OES SI FE CU MN MG CR ZN TI Actuals 0.06 0.30 1.6 0.02 2.5 0.19 5.8 0.02

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

From: ThyssenKrupp Materials NA

Cust.

THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402545990

CstAr Wgt.: 527.000 LB

Cstor 249568

Date 06/20/2013

FORM: 1006

WORKORDER:

2402545990

COPPER AND BRASS SALES

MATERIAL TYPE

ALUMINIUM ALLOYS

PRODUCT DESIGNATION

2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7

"WARNING"

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSION POTENTIAL MAY BE PRESENT WHEN: DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION-PROOF VENTILATION. KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD), A SERIOUS CHRONIC LUNGDISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD; OVER TIME CBDAND CANCER CAN BE FATAL, TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, ANDZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOUSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN, TEETH, AND HAIR DISCOLORATION. CHRONIC OVEREXPOUSURE TOMANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE, SCARRING OF THELUNGS AND REPRODUCTIVE HARM IN MALES. TARGET ORGAN IS PRIMARILY THE LUNG, BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER. CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS. CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS. OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUSMEMBRANES OF THE EYES, NOSE, AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACTAND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THEINSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL, MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

- * If processing or recycling produces particulate, use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding, grinding, abrasive sawing, sanding and polishing. Any activity which abrades the surface of this material can generate airborne particulate. Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.
- * The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.
- * Aluminum, in solid form and as contained in finished products presents no special health risk.
- * Sold for manufacturing purposes only. This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ www.copperandbrass.com.

ALUMINUM LABEL NO. 300-1056

ISSUED 10/01/2008



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20247

Purchase Order Date 6/19/2013 PO Print Date 6/19/2013

Page Number 1 of 2

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

905 669 9444

Yours ppd

MATERIAL: 7075-T6/T651/T6510/T6511/T62 ALUMINUM

4122/4123/4186/4187 PR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE NOTE: CUT 20 PCS TO SIZE

BAR AS PER AMS-QQ-A-225/9 OR AMS

MATERIAL SPEC'S SAME AS ABOVE

Buyer **Customer POID** Chantal Lavoie

Customer Tax #

10127-2607

Terms Currency Net 30 CAD

FOB

Req Qty/

Unit of

Measure

15.42

f

Destination-Collect

List Price Disc

%

Ship Via: Ship Acct:

Nbr

Reference Line Vendor Part Number **Line Comments**

Delivery Comments

M7075T6B4.000X4.500

7075-T6 BAR 4.000' X

Description/

Mfg ID

4.500"

6/28/2013

Promise Date

Yes

Req Date/ CD

Taxable

6/2/8/2013

Line Total:

Discounted

Unit Price

\$1,395.00

\$3,625.00

Extended

\$1,395.00

Price

M7075T6B2.250X02.750

7075-T6 BAR 2.250' X

2.750"

6/28/2013

120.00

43/6/26

Yes

6/28/2013

Line Total:

\$3,625.00

Note:

6/19/2013



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20247

Purchase Order Date 6/19/2013 PO Print Date 6/19/2013

Page Number 2 of 2

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Ship To Contact

Ship To Phone

Vendor Phone

905 669 9444

Yours ppd

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30 CAD

Currency

FOB

Destination-Collect

Ship Via: Ship Acct:

M7075T6B3.000X04.500

7075-T6 BAR 3.000' X 4.500"

6/28/2013

124.67

\$8,086.76

6/28/2013

MATERIAL SPEC'S SAME AS ABOVE NOTE: CUT 44 PCS TO SIZE 34.000"

Yes

Line Total:

\$8,086.76

M7075T6B6.000X6.000

7075-T6 BAR 6.000' X

6/28/2013

12.08

\$2,050.00

6.000" (order in billets)

Yes

MATERIAL SPEC'S SAME AS ABOVE NOTE: CUT 20 PCS TO SIZE 7.2500"

6/28/2013

Line Total:

\$2,050.00

PO Total:

\$15,156.75

MATERIAL CERTIFICATION REQ'D UPON DELIVERY

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent. Certificate of Conformity or Material Certification required YES

Change Date:

6/19/2013

NO

Change Nbr: